

## PATENT COOPERATION TREATY

## PCT



## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PP-E0058	<b>FOR FURTHER ACTION</b>		See Form PCT/IPEA/416
International application No. <b>PCT/KR2004/002673</b>	International filing date(day/month/year) <b>19 OCTOBER 2004 (19.10.2004)</b>	Priority date (day/month/year) 24 OCTOBER 2003 (24.10.2003)	
International Patent Classification (IPC) or national classification and IPC  <b>H04B 1/40(2006.01)i</b>			
Applicant  <b>KJ HEALTH CARE CO., LTD. et al</b>			

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>5</u> sheets, as follows:</p> <p style="margin-left: 40px;"><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p style="margin-left: 40px;"><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>

Date of submission of the demand  <b>12 AUGUST 2005 (12.08.2005)</b>	Date of completion of this report  27 FEBRUARY 2006 (27.02.2006)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer  KIM, Dong Sung  Telephone No. 82-42-481-5949 

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/002673

**Box No. 1 Basis of the report**

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_ which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:  
pages 1-21 \_\_\_\_\_ as originally filed/furnished  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:  
pages \_\_\_\_\_ as originally filed/furnished  
pages\* \_\_\_\_\_ as amended (together with any statement) under Article 19  
pages\* 22-26 received by this Authority on 23.01.2006  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:  
pages 1/3-3/3 \_\_\_\_\_ as originally filed/furnished  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_  
pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. ☒ The amendments have resulted in the cancellation of:
- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. 4-5, 7, 11 \_\_\_\_\_
- ☐ the drawings, sheets \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/KR2004/002673

## Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-3, 6, 8-10, 12	YES
	Claims		NO
Inventive step (IS)	Claims	1-3, 6, 8-10, 12	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-3, 6, 8-10, 12	YES
	Claims		NO

### 2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1 : JP 15-57244 A (NIPRO CORP) 26 FEBRUARY 2003

D2 : KR 2002-0032508 A(COSMOGENOME INC) 03 MAY 2002

#### 1. Novelty and Inventive Step(PCT Article 33(2)-(3))

D1 discloses a recording medium capable of measuring blood sugar and a system for utilizing the recording medium mounted on a portable terminal device as a blood sugar measuring device, which connects the portable terminal device and a server for managing blood sugar information received from the portable terminal device to a network to provide a bidirectional service between them.

D2 discloses a patch type infusion pump adjustable at a remote distance by using a wireless communication method which is provided to achieve an ultra light pump by eliminating the installation of manipulating switches or display elements, and to enable a user to monitor and deal with the abnormal condition of the pump at the remote distance via a network.

Claims 1-3, 6, 8-10, 12 of the present invention relate to an insulin pump for use in conjunction with a mobile communication terminal capable of measuring blood glucose levels, and a network system for transmitting control information for the insulin pump, in which information on measured blood glucose levels is provided to a medical server through the mobile communication terminal, information on the amounts of insulin is received from the medical server, and the insulin pump is controlled based on the information on the amounts of insulin to be injected. As a result, this invention not only improves the convenience of use of the insulin pump but also performs the supply of precise amounts of insulin.

- To be continued on the supplemental box -

**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.  
Continuation of:

However, no prior art including the cited documents discloses the subject matter of claim 1-3, 6, 8-10, 12 which comprises the technical components of : an external input port connected to the mobile communication terminal capable of measuring blood glucose levels and an output port for outputting information on amounts of insulin injected to a user; a control unit for accumulating the information on the measured information and displaying the accumulated information on the LCD panel in graphic form with respect to a predetermined period; a DB for storing information on amount of insulin injected and amount of food eaten and amount of exercise taken by a user; a blood glucose management server for receiving the information on the measured blood glucose levels and an amount of food eaten and an amount of exercise taken; and a communication server for converting the information on the amounts of insulin to be injected into coded information and transmitting the coded information to the mobile communication terminal.

Therefore claims 1-3, 6, 8-10, 12 of the present invention meet the criteria set out in PCT Article 33(2)-(3).

2) Industrial Applicability (PCT Article 33(4))

Claims 1-3, 6, 8-10, 12 of the present invention meet the criteria set out in PCT Article 33(4) because the subject matter of said claims is industrially applicable.